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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/766,784	01/22/2001	Marc Morin	CISCP239	8354	
22434	7590 07/16/2004		EXAMI	EXAMINER	
BEYER WEAVER & THOMAS LLP			KLIMACH, PAULA W		
P.O. BOX 778 BERKELEY, CA 94704-0778			ART UNIT	PAPER NUMBER	
,			2135	T.	
•			DATE MAILED: 07/16/2004	$\varphi$	

Please find below and/or attached an Office communication concerning this application or proceeding.

X

	Application No.	Applicant(s)		
•			$\mathcal{S}_{\mathcal{I}}$	
. Office Action Summary	09/766,784	MORIN, MARC	<b>Q</b> Y	
Office Action Summary	Examiner	Art Unit		
The MAILING DATE of this accounting them are	Paula W Klimach	2135		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	т тве соггезропаенсе адаге:	SS	
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a rep y within the statutory minimum of thirty will apply and will expire SIX (6) MONT , cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this commi NDONED (35 U.S.C. § 133).	unication.	
Status				
1)⊠ Responsive to communication(s) filed on <u>08 Ju</u>	une 2001.			
,				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments				
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.		
Disposition of Claims				
4) ⊠ Claim(s) 1-14 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-14 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o	wn from consideration.			
Application Papers				
9) The specification is objected to by the Examine	er.			
10)☐ The drawing(s) filed on is/are: a)☐ acc	epted or b) objected to b	y the Examiner.		
Applicant may not request that any objection to the				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex				
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Aprity documents have been rule (PCT Rule 17.2(a)).	oplication No received in this National Sta	age	
Attachment(c)				
Attachment(s)  1) Notice of References Cited (PTO-892)	4) 🔲 Interview St	ımmary (PTO-413)		
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date 4.</li> </ul>	Paper No(s)	/Mail Date ormal Patent Application (PTO-15	j <b>2</b> )	
I.S. Patent and Trademark Office				

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## DETAILED ACTION

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mao (6,459,427 B1) in view of Schneier.

In reference to claims 1, 5, 9, and 13, Mao teaches a method and system of modifying the PCR with conditional access messages. The system transports streams at different bit rates, re-assign PID, adjust PCR, and insert conditional access messages such as ECM and EMM (column 5 lines 18-24). Conditional access messages are used for the decryption and therefore authentication of the receiving system.

However Mao does not disclose the modification of the PCR by logically anding off a portion of the lower bits, and therefore inserting the digital signature.

Schneier discloses the association of the digital signature with a timestamp (page 38). The PCR is timing information used in the transmission of digital multimedia information.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to insert the timestamp associated digital signature of Schneier in the modification of Mao. One of ordinary skill in the art would have been motivated to do this because relating the timestamp and the digital signature discourages fraudulent activity of the reuse of digitally signed information.

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In reference to claims 2, 6, 10, and 14, the wherein the digital signature may span a plurality of PCR fields in a plurality of packets. The number of packets used to store the digital signature is dependent on the size of the digital signature because the digital signature depends on the hash of the document (Schneier page 38 paragraph 6).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to insert the timestamp associated digital signature of Schneier in the modification of Mao. One of ordinary skill in the art would have been motivated to do this because relating the timestamp and the digital signature discourages fraudulent activity of the reuse of digitally signed information.

In reference to claims 3, 7, and 11, wherein the digital signature is encrypted to produce an encrypted signature (Schneier page 37).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to encrypt the digital signature as in Schneier. One of ordinary skill in the art would have been motivated to do this because by decrypting the signature with the public key the information is authenticated.

In reference to claims 4, 8, and 12, wherein the encrypted signature is scrambled to provide for error correction. It is common practice to add error correction to packets that are transported over the network (Schneier page 179 paragraph 1).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to add a verification block as in Schneier in the system of Mao.

One of ordinary skill in the art would have been motivated to do this because a receiver can detect if a particular key he has received is correct.

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## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Huang et al

6,546,013

Itakura et al

6,493,832 **B**1

Peterka et al

20020174366 A1

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paula W Klimach whose telephone number is (703) 305-8421. The examiner can normally be reached on Mon to Thr 9:30 a.m to 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (703) 305-4393. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PWK

Monday, July 12, 2004

SUPERVISORY PATENT EXAMENTED

YECHNOLOGY CENTER 2103